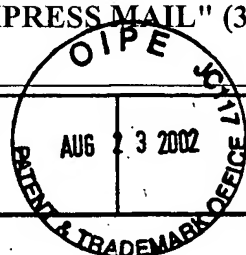
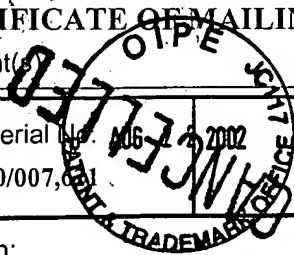


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Serial No. 10/007,811	Filing Date 12/03/2002	Examiner	Group Art Unit 1645



Invention:
Enzymatic Nucleic Acid Synthesis: compositions and Methods for altering monomer incorporation fidelity.

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	Applicant Susan Hardin	AUG 23 2002	
	FILING DATE 12/03/2001	GROUP 1645	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

		Sanger, et al. <u>DNA sequencing with chain-terminating inhibitors</u> . Proc. natl. Acad Sci USA, Vol. 74, No.12, pp.5463-5467, December 1977
		Church, et.al. <u>Multiplex DNA Sequencing</u> . Science, New Series, Vol. 240, Issue 4849(Apr. 8, 1988), 185-88.
		Hunkapiller, et. al. <u>Large-Scale and Automated DNA Sequence Determination</u> . Science, New Series, Vol.254, Issue 5028, Special Issue: Instrumentation (Oct.4. 1991), 59-67.
		Maxam, et. al. <u>A new methods for sequencing DNA</u> . Proc. Natl. Acad. Sci. USA Vol. 74, No.2, pp. 560-564, February 1977.
		Fleischmann, et.al., <u>Whole-Genome Random Sequencing and Assembly of Haemophilus Influenzae Rd. Science</u> , New Series, Volume 269, Issue 5223 (Jul. 28, 1995), 496-498+507-512.
		Velculescu, et. al. <u>Serial Analysis of Gene Expression</u> . Science, New Series, Volume 270, Issue 5235 (Oct. 20, 1995), 484-487.
		Koster, et. al. <u>A strategy for rapid and efficient DNA sequencing by mass spectrometry</u> . Nature Biotechnology Vol. 14, September 19961123-1128.
		Jett, et. al. <u>High-Speed DNA Sequencing: An Approach Based Upon Fluorescence Detection of Single Molecules</u> . J. Biomol. Struct. Dyn. Vol. 7, pp.301-, 1989.
		Garcia. <u>Determination of Ion Permeability by Fluorescence Quenching</u> . Methods in Enzymology, vol. 207., pp.501-511,1992.
		Yanlong, et. al. <u>Design, Synthesis, and Spectroscopic Properties of Peptide-Bridged Fluorescence Energy-Transfer Cassettes</u> . Bioconjugate Chem., vol. 10, pp241-245, 1999.
		Tabor, et. al. <u>DNA Sequence Analysis with a Modified Baceteriophage T7 DNA Polymerase</u> . Journal of Biological Chemistry, vol. 265, pp.8322-8328,1990.
		Nyren. <u>Enzymatic Methods for Continuous Monitoring of DNA Polymerase Activity</u> . Analytical Biochemistry 167, 235-238, 1987.
		Johnson, et. al. <u>An Enzymatic Method for Determination of Inorganic Pyrophosphate and Its Use as an Assay for RNA Polymerase</u> . Analytical Biochemistry vol. 26, 137-145, 1968.
		Driscoll, et. al. <u>Atomic-scale imaging of DNA Using Scanning Tunnelling Microscopy</u> . Nautre, vol. 346, pp.294-296, 1990.
		Bains, et. al. <u>A Novel Method for Nucleic Acid Sequence Determination</u> . J. Theor. Biol., vol. 135, pp.303-307, 1988.
		Syvanen, et. al. <u>A Primer-Guided Nucleotide Incorporation Assay in the Genotyping of Apolipoprotein E</u> . Genomics, vol. 8, 684-692, 1990.
		Wainberg, et. al. <u>Enhanced Fidelity of 3TC-Selected Mutant HIV-1 Reverse Transcriptase</u> . Science, New Series, Vol. 271, pp. 1282-1285. 1996.



		Lewis, et. al. <u>Uniquely Altered DNA Replication Fidelity Conferred by an Amino Acid Change in the Nucleotide Binding Pocket of Human Immunodeficiency Virus Type 1 Reverse Transcriptase</u> . Journal of Biological Chemistry vol. 274, pp. 32924-32930, 1999.
		Narasimhan, et. al. <u>p-Benzoquinone activation of metal oxide electrodes for attachment of enzymes</u> . Enzyme Microb. Technol., vol. 7, pp. 283-286, 1985.
		Asanov, et. al. <u>Regenerable Biosensor Platform: A Total Internal Reflection Fluorescence Cell with Electrochemical Control</u> . Analytical Chemistry, vol. 70, pp. 1156-1163, 1998.
		Tokunaga, et. al. <u>Single Molecule Imaging of Fluorophores and Enzymatic Reactions Achieved by Objective-Type Total Internal Reflection Fluorescence Microscopy</u> . Biochemical and Biophysical Research Communications vo. 235, pp. 47-53, 1997.
		Xu, et. al. <u>Long-Range Electrostatic Trapping of Single-Protein Molecules at a Liquid-Solid Interface</u> . Science, vol. 281, pp. 1650-1653, 1998.
		Edman, et. al. <u>Conformational transitions monitored for single molecules in solution</u> . Proc. Natl. Acad. Sci. USA, pp. 6710-6715, 1996.
		Kinjo, et. al. <u>Ultrasensitive hybridization analysis using fluorescence correlation spectroscopy</u> . Nucleic Acids Research, vo. 23, 1795-1799, 1995.
		Castro, et. al. <u>Single-Molecule Detection of Specific Nucleic Acid Sequences in Unamplified Genomic DNA</u> . Analytical Chemistry, vol. 69, pp. 3915-3920, 1997.
		Nie, et. al., <u>Probing Individual Molecules with Confocal Fluorescence Microscopy</u> . Science, vol. 266, pp. 1018-1021, 1994.
		Nie, et. al. <u>Real-Time Detection of Single Molecules in Solution by Confocal Fluorescence Microscopy</u> . Analytical Chemistry, vol. 67, pp. 2849-2857, 1995.
		Schmidt, et. al. <u>Imaging of single molecule diffusion</u> . Proc. Natl. Acad. Sci. USA vol. 93, pp. 2926-2929, April 1996.
		Zuckerman, et. al. <u>Efficient Methods for attachment of thiol specific probes to the 3' ends of synthetic...</u> Nucleic Acids Research vol. 15, pp. 5305-5321, 1987.
		Gupta, et. al. <u>A general method for the synthesis of 3'-sulfhydryl and phosphate group containing oligonucleotides</u> . Nucleic Acids Research, vol. 19, pp. 3019-3025, 1991.
		Agrawal, et. al. <u>Site-Specific Functionalization of Oligodeoxynucleotides For Non-Radioactive Labelling</u> . Tetrahedron Letters, vol. 31, pp. 1543-1546, 1990.
		Sproat, et. al. <u>The synthesis of protected 5'-mercapto-2',5'-dideoxyribonucleoside-3'-O-phosphoramidites; uses of 5'- mercapto-oligodeoxyribonucleotides</u> . Nucleic Acids Research, vol. 15, pp. 4837-4849.
		Nelson, et. al. <u>Multifunctional oligonucleotide probes synthesized using a novel CPG support are able to detect single base pair mutations</u> . Nucleic Acids Research, vol. 17, pp. 7187-7193, 1989.
		LeBel, et. al. <u>Characterization and Purification of a Calcium-sensitive ATP Diphosphohydrolase from Pig Pancreas</u> . Journal of Biological Chemistry, vol. 255, pp. 1227-1233, 1980.
		Guatelli, et. al. <u>Isothermal, in vitro amplification of nucleic acids by a multienzyme reaction modeled after retroviral replication</u> . Proc. Natl. Acad. Sci. USA, vol. 87, pp. 1874-1878. 1990.
		Fu, et al. <u>Sequencing double-stranded DNA by strand displacement</u> . Nucleic Acids Research, vol. 25 pp. 677-679, 1977.

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